

## Proteins involved in cell division

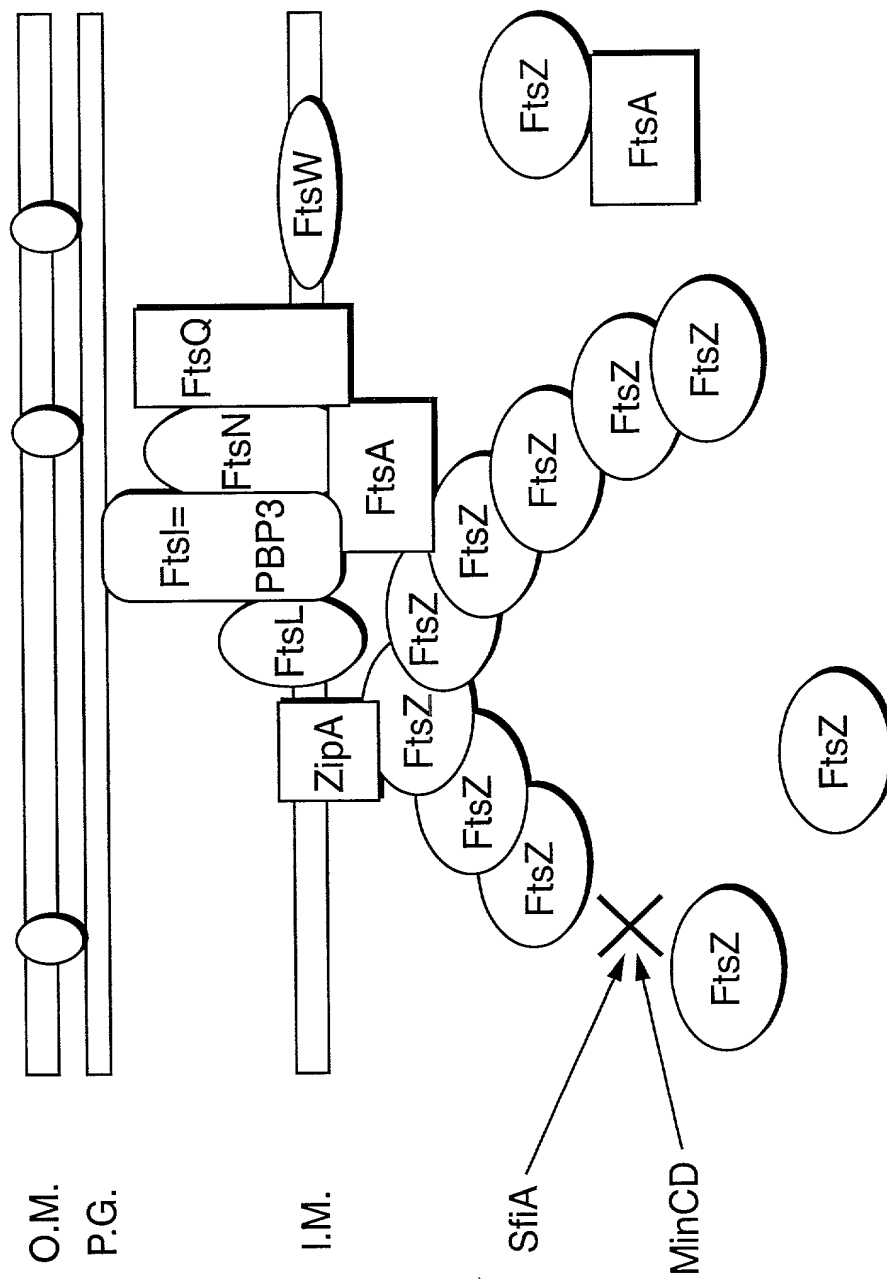


FIG. 1

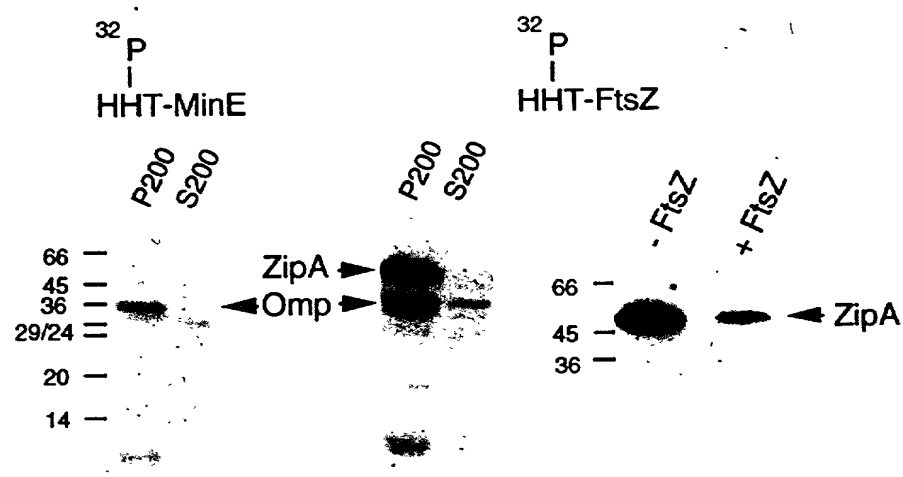


FIG. 2

# ZipA protein

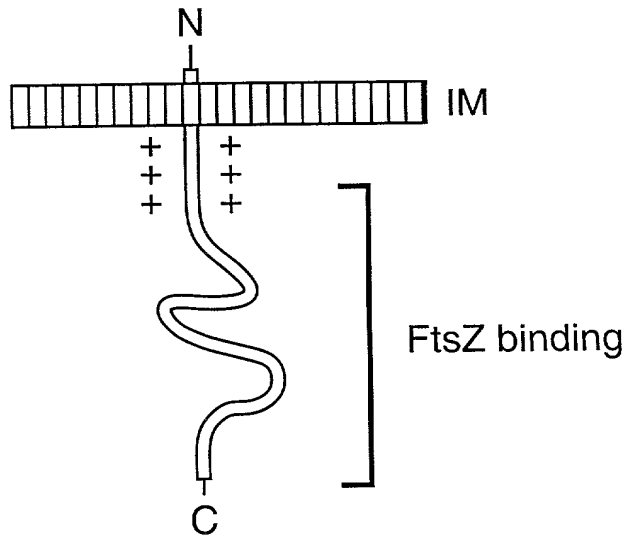
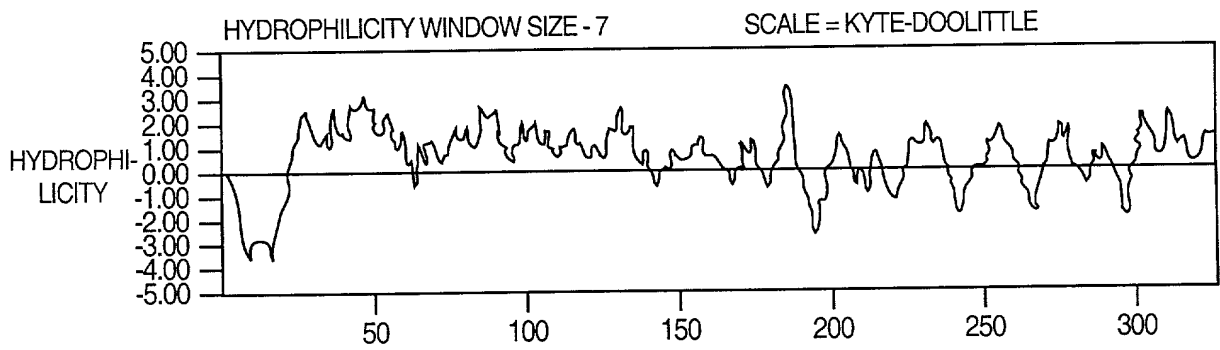
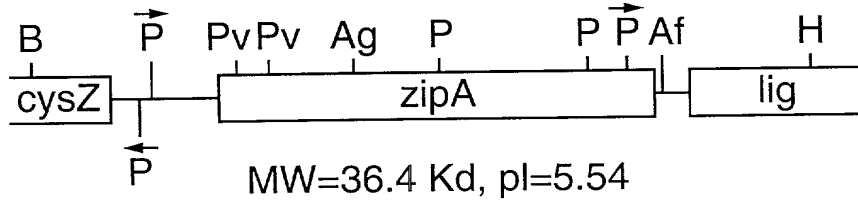


FIG. 3

1 CAATACCAGGATGAAGTAAGAAATTAGTAATACAATTGCGCGCGGCAGATACCAGGCAAAATTTTGGCAATTCGGGTTTCATGATTCGGGGCACATCTTTCATGATACCGGAAATATCCCGG

121 TATCTGGCGGTGTAGGGCCAGTCAATCGTGCTTCCAGTTGTTTCAGCCCAATAAACCGTTAAACGGAGCGGCAATCCAGTTAGCAATCGTGGAGAAATAAGCCAAACACTAACAGCACACAG

241 AGATGACACGCAGAGGCCCAACAACAGATAACTCAGCCATTGTAGCCAGTCCGGAACGTAACTCATGAGAGTCGGGATCCAGACATCGAGCTGTGTAAAGAGCCACCAGAAATGCGGCCCCCA

361 TCAACAAAATATTGACCAGCAGCGGTAAATAACGAACGCCGAATCCAGGTTGCGAGACGAGCTTCCAGCCTTGGCAAAATAAGTAAACCCGCTGCGTGGGCGAGATGTGAATGATG

481 AAACCATAATCAGGATGAGCTCCTTTTGACCAATCCCCAGGAAAATTCGGGTATTTTACCGGGTAATTGCGCAATGGACAGTTAGGATATGTTTCGAAAAAACAGCAAAAAGCAGCATTTTC

601 ATCTATCTTTGTGCTGCTGAAAGTTAATAGTGCACCTTGCACTTGAGGTAAATCGGCAATACTCTTAGTGAGTAAATGTTTGCCGTGTGGCAAGGTGTAGAAACAACAGAGAAATATAATGA

721 TGAGGATTTGCGTCTGATATTAATCATTTGTTGGCGCATCGCCATAATCGCTTTACTGGTACATGGTTTCTGGACCAAGCGTTAAGAACGATCTTCTATGTTCCGGCATCGGCCATTAA

841 AACGAATGAAGTCAAAACCGTGACGACGATTTCTTATGACGAGGATGTCGAAGATGATGAGGGCGTTGGTGAAGTTGTTTACCGGCTGAATCATGCCCGCTAACGCTCAGGAGCATG

961 AGGCTGCTCGTCCGTCGCAACACAGTACCAACCGCCTTATGCGTTCGCGCAGCCCGGTCAACCGGTCCAGCAGCCGCTGAAGCGCAGGTACCGCGCAACATGCTCCGGATCCAC

1081 CGCAGCCGGTGCAGACGCTGCCTATCAGCCGCGCAGCCTTGAACAGCCGTTTGGCAGCAGCCAGTTTGGCCACAGGTTCGGCCAGCGCCGCGCAGCCTGTGCAITTCAGCACCCGCAACCGGACAAC

1201 AGGCTTTCAGCCTGCAGAACCCGTAGCGGCACCAACAGCTGAGCCTGTAGCGGAACCTGCTCCAGTTATGGAATAAACCGAAGCGGTAAGCGGTGATTCATGTAACGTTCGGCGCGC

*Bgl*

*PstI*

*AgeI* *kpnI*

*PvuI* *zipA* -->

*Bam* *HI*

FIG. 4A

1321 ATCAGCGTAGCGAGCTAAACGGTGAAAGCTCTTCTTTAAACAGCATTCAAACAGCGGGCTTCAATTTTGGCGATATGAATATTTACCATCCTCATCTTAGCCCGGATGGCAGCGCGCGCGGT  
H G S E L N G E A L L N S I Q Q A G F I F G D M N I Y H R H L S P D G S G P A L  
*KpnI PstI*  
1441 TATTACAGCCCTGGCGGAATATGGTGAAACCGGGAACCTTTGATCCTGAAATGAAGGATTTCACTACTCCGGGTGTCACTATCTTTATGAGGTACCGTCTTAGCGGTGACGAGCTGGAGAACT  
F S L A N M V K P G T F D P E M K D F T T P G V T I F M Q V P S Y G D E L Q N F  
1561 TCAAGCTGATGCTGCAATCTGCGCAGCATATTGCCGATGAAGTGGCGGTGTGCTTGACGATCAGCGCCGATATGATGACTCCGCGACAAAATTGCGCGGAGTACCAGGACATCATCCGCG  
K L M L Q S A Q H I A D E V G G V L D D Q R R M M T P Q K L R E Y Q D I I R E  
*AflII*  
1681 AAGTCAAAGACGCCAACGCCGTGATACACTTAAGGCAAAATTAACTCCTCTTCGAACCCCCGCTTGTCCGGGGTTTTTAGCATTTGATGGTGATATGGAATCAATCGAACACAACTGACA  
V K D A N A  
1801 GAACTGCCAACGAGCTTCGCCATCATGAATATCTTTATCATGTGATGGATGCCCGGGAATTCCCGACGCTGAATACGACAGGCTGATGCCCGGAACCTGCCGGAGCTGGAAACCAAACAT  
*HindIII*  
1921 CCAGAACTGATTACGCCTGATTGCGCTACTCAACGTGTAGCGCTGCGCGCTGGCGGGCTTTCAGCCAGATACGCCCATGAAGTACCAATGCTGTCACTGGATAACGTTTTTGTATGAAGAA  
2041 AGCTTTCTGCTTTCAACAAACGTGTGCAGGACCGTCTGAAAAACAACGAGAAAGTCACCTGGTGTGTGAGCTGAAGCTGGATGGTCTTGCCGTCAGTATTCTCTGTATGAAAATGGCGTT

FIG. 4B

[illegible]

Fig. 5

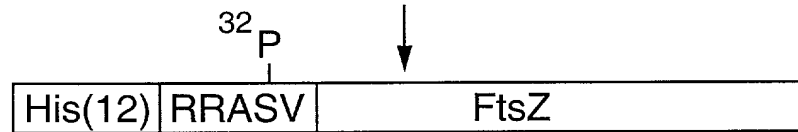
# Interaction Cloning



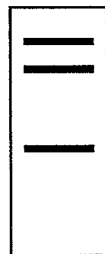
+ Heart Muscle Kinase

+ [ $\gamma$ - $^{32}$ P]ATP

Gel Filtration



Far Western



Expression Library

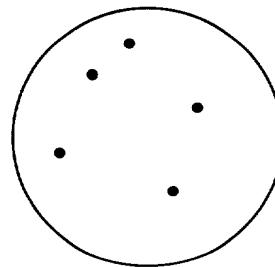


FIG. 6

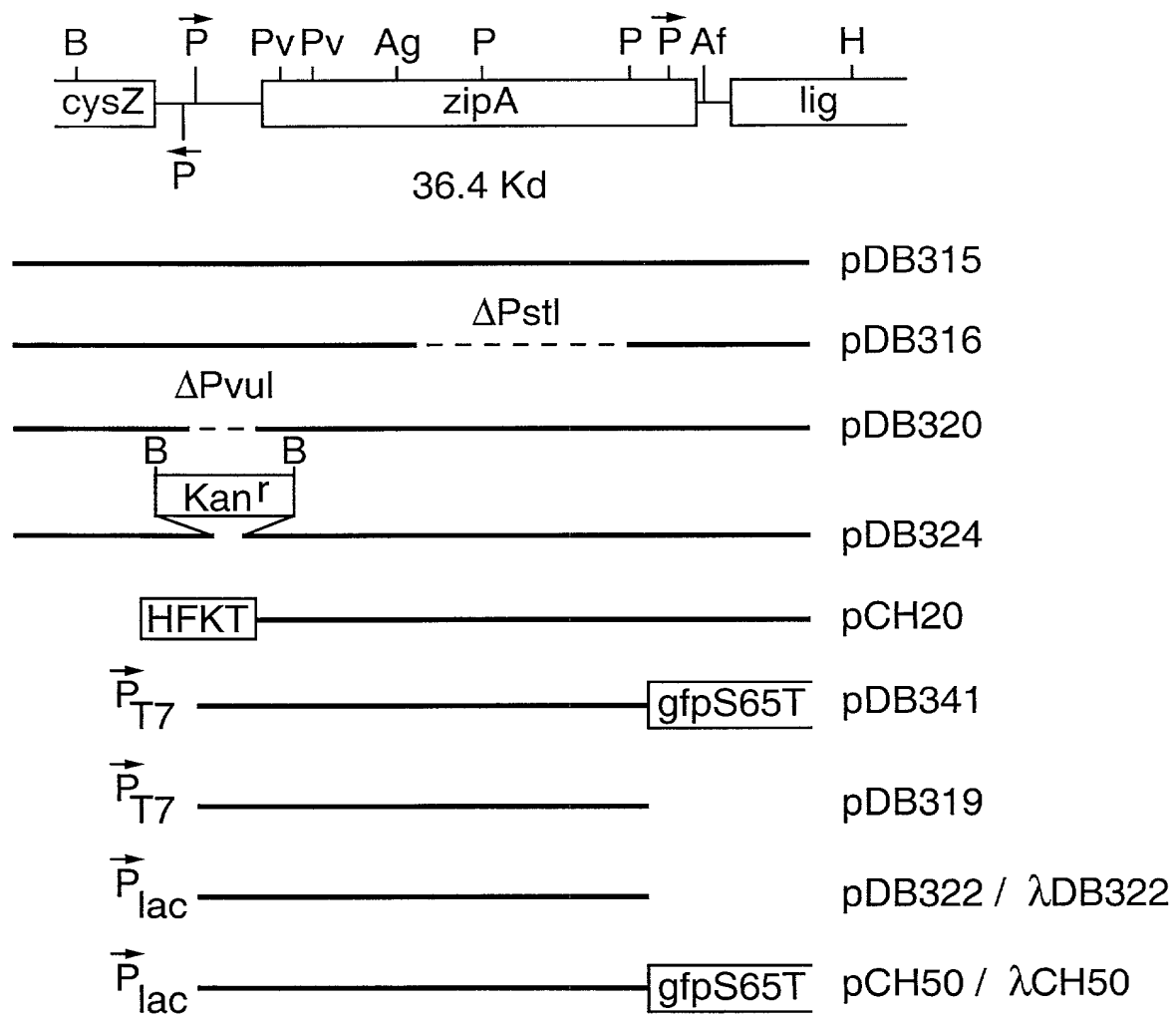


FIG. 7